

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A filter catalyst comprising:

a catalyst-support substrate ~~composed of~~ comprising a heat-resistant porous structure having chained pores; and
a catalytic layer for burning particulates, the catalytic layer formed on a surface of the catalyst-support substrate;

the filter catalyst being characterized in that an SEM photograph on a cross section of the filter catalyst is turned into electronic data so that, in an image being turned into electronic data, a ratio of a number of pixels forming an outer periphery of the catalytic layer to a number of pixels forming the catalytic layer is 0.5 or more;

wherein:

forming the catalytic layer comprises removing excess slurry by repeating a pressure fluctuation at both ends of the catalyst-support substrate. substrate; and
particles forming the slurry having a diameter of 1 μ m or less are present in an amount of 70% or more by weight of an entire amount of particles forming the slurry.

2. (Original) The filter catalyst set forth in claim 1, wherein said image being turned into the electronic data is an image with 1-to-3- μ m/pixel magnification.

3. (Withdrawn-Currently Amended) A method of analyzing a catalytic layer of a filter catalyst ~~comprising:~~ comprising turning an SEM photograph on a cross section of the filter catalyst into electronic data so that, in an image being turned into electronic data, a coated state is analyzed from a ratio of a number of pixels forming an outer periphery of the catalytic layer to a number of pixels forming the catalytic layer;

wherein the filter catalyst comprises:

a catalyst-support substrate composed of comprising a heat-resistant porous structure having chained pores; and

a catalytic layer for burning particulates, the catalytic layer formed on a surface of the catalyst-support substrate, wherein:

forming the catalytic layer comprises removing excess slurry by repeating a pressure fluctuation at both ends of the catalyst-support substrate, and

particles forming the slurry having a diameter of 1 μm or less
are present in an amount of 70% or more by weight of an entire amount of particles forming
the slurry.;

~~the method of analyzing a catalytic layer of a filter catalyst comprising turning an SEM photograph on a cross section of the filter catalyst into electronic data so that, in an image being turned into electronic data, a coated state is analyzed from a ratio of a number of pixels forming an outer periphery of the catalytic layer to a number of pixels forming the catalytic layer.~~

4. (Withdrawn) The method of analyzing a catalytic layer of a filter catalyst set forth in claim 3, wherein said image being turned into the electronic data is an image with 1-to-3- μm /pixel magnification.

5. (Previously Presented) The filter catalyst set forth in claim 1, wherein the catalytic layer is formed in a loading amount of 150g/1-liter to 200g/1-liter apparent volume of the catalyst-support substrate.

6. (Withdrawn) The method of analyzing a catalytic layer of a filter catalyst set forth in claim 3, wherein the catalytic layer is formed in a loading amount of 150g/1-liter to 200g/1-liter apparent volume of the catalyst-support substrate.

7. (Previously Presented) A filter catalyst comprising:

a catalyst-support substrate ~~composed of~~ comprising a heat-resistant porous structure having chained pores; and

a catalytic layer for burning particulates, the catalytic layer formed on a surface of the catalyst-support substrate;

wherein:

a ratio of an outer peripheral length of the catalytic layer in the cross section of the filter catalyst to a cross-sectional area of the catalytic layer is 0.5 or ~~more~~; and more;

forming the catalytic layer comprises removing excess slurry by repeating a pressure fluctuation at both ends of the catalyst-support ~~substrate~~; substrate; and

particles forming the slurry having a diameter of 1 μm or less are present in an amount of 70% or more by weight of an entire amount of particles forming the slurry.

8. (New) The filter catalyst set forth in claim 1, wherein the diameter of the particles forming the slurry is 1 μm or less.